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## INFORMATION REPORT INFORMATION REPORT

## CENTRAL INTELLIGENCE AGENCY

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COUNTRY USSR

REPORT

SUBJECT

1. New Soviet Merchant Ships and Equipment
2. Coastal Radar Installation in Odessa.

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miscellaneous information on Soviet merchant ships and shipping operations, including the following:

1. The Soviet Union is planning to build 10 KAZBEK-class tankers in the near future. The total fleet of these ships, including those in service, those under construction and those planned for the immediate future, totals 25-30 ships.
2. Four ships of the STANISLAVSKIY-class will be built in Belgium, nine ships of the TISSA-class (identical to the SHEMAKHA) will be built in Budapest, and nine ships of the GOLOVIN-class (but with internal combustion engines) will be built in Poland.
3. Twenty new shallow-draft vessels will be built for river transport of petroleum products. These vessels will be of about 5,000 tons and 1,000 horsepower. They will be equipped with 8 DR 30/50 engines.
4. At the present time, there is a Neptune coastal radar installation in Odessa near the Grain Pier which is used by port pilots in conjunction with two radio-telephone stations. These installations are not joined together, however, and the system will be replaced -- particularly since the radar only covers about one-third of the petroleum harbor. The new equipment may be either Zarmita-type radar with a range of 50-70 miles or a new Neptune-type radar with a range of 40 miles. Either will be used in connection with new radio-telephone equipment with range of 10 miles (compared to a range of 3.5 miles for the present equipment). The new installations will probably not be located at the Grain Pier.
5. Soviet ships are being equipped with new gyrocompasses, type KURS-3 or KURS-4 AMUR-MGK-AIN, new ANSCHUTZ gyropilots, and new fathometers, type NEL-3.
6. On Soviet merchant ships, the radio operator is responsible for the maintenance and operation of navigational equipment in addition to the communications installation.

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7. The Stvor radar has been banned from ocean-going vessels, but a new radar set, the Palma, is now in its final testing stage and will be comparable with the best existing radar types. The Palma radar will have a range of 75 miles.

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Genoa at 1700 hours on 18 March 1957, coming directly from Odessa.

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In Genoa the ship unloaded 10,373 tons of fuel oil for the AGIP Company  
in Genoa.

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The ship is the same model as the other motor tankers which arrived  
ahead of it and was built in June 1956 at the Leningrad dockyard. It  
appears that the plan is to build 70 such ~~ships~~ in all.

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All the technical, nautical, and radio equipment are of Russian  
make but were probably taken from other ships, inasmuch as they appear  
to have had a good deal of use.

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[redacted] the heavy traffic on the ~~river~~ Volga: from south to

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north, numerous tankers bring fuels to northern ports, while lighters  
and small steamers carry machinery and various materials <sup>south</sup> to outfit

buildings and factories in the so-called virgin lands; the latter

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equipment [redacted] is brought to its final destina-

tion by rail and other means. [redacted] the river ports are being

continually improved by the addition of technical equipment, wharves,  
and passenger stops. In many ports, as for example Cebokseny,

Ulyanovsk, Syzran, Engels, Kamishin, Stalingrad, Petropavlovsk, Nikol-

skoye, there have been installed lifts to load and unload grains and

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cereals in bulk, as well as Czech <sup>"Capra Zoppa"</sup> [redacted] cranes of 10-20-ton capacity  
to load and unload various goods.

The river fleet too has been expanded by the addition recently of  
some new cargo and passenger ships, the latter carrying about 50 passen-  
gers. At the Leningrad shipyard, there is being built a 1,200-ton  
capacity mixed ship, one that has a small draught and is adapted to  
sailing on secondary canals. It reportedly will link Stalingrad with  
Rostov and with Gorky as well as the centers located north of Gorky,  
along the canals used by internal shipping.

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[redacted] in order to <sup>check in</sup> ~~the~~ the port of Novorossisk when the northeast wind

has a force of 8-10 knots it is necessary, ~~on~~ on entering the port, to  
head toward the northeastern part of the port and then, when the vessel  
is close to the coal dock, to turn left and then drift <sup>closer</sup> ~~closer~~ to the  
dock; drop anchor when near the head of the dock, reverse the engines  
and draw up at the dock.

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[redacted]  
[redacted] from Odessa [redacted] on the wharf a  
cargo consisting of crates of machinery about to be loaded on the  
steamer Shemaka, destined for Durazzo. [redacted] the  
cargo is part of the ~~aid~~ economic aid program of the USSR for the  
People's Democracies. It happens that the USSR has sent technicians  
to Albania to assemble the abovementioned? machinery.

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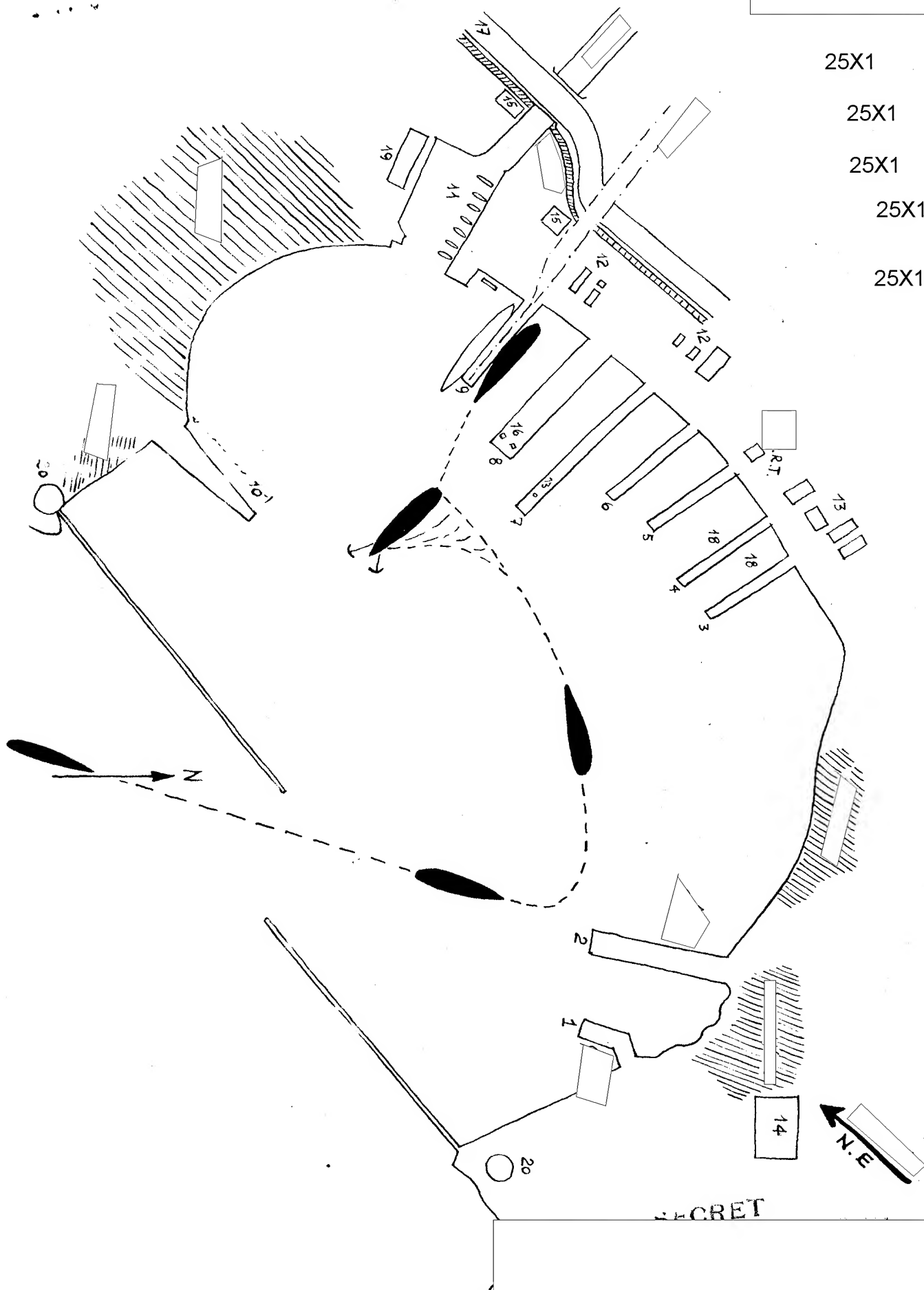
As for Rumania, [redacted] a congress was recently held 25X1  
by Russian and Rumanian technicians and scientists for the purpose of  
effecting an exchange of industrial and technical information. The  
USSR reportedly would give Rumania the patents for heavy machinery, tools,  
agricultural machinery, etc., while Rumania, besides offering patents  
for machinery used in the food industry and in the manufacture of  
domestic tools, would give the plans for the drilling of the oilwells, 25X1  
as well as for entire oil plants, <sup>for</sup> refineries, <sup>for</sup> and related industries.

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[redacted]  
[redacted] at a distance of 200 miles  
from Italy, [redacted] pick up the Italian telecasts but without  
hearing the sound. [redacted]  
[redacted]

[redacted] the ship's  
radar apparatus was rather antiquated in contrast with everything else,  
which was of recent make. [redacted] it had not been possible to 25X1  
install a more modern apparatus because the "Stvor" radar has been banned  
from all ships making a long voyage inasmuch as its defective qualities  
*realized*  
are ~~known~~; instead it is used on ships making small coastal trips and  
on tugboats. [redacted] an extremely new type of 25X1  
radar called "Palma" (palm) is in its final testing stage, [redacted] it 25X1  
is said to have a range of 75 miles, and that it is comparable with the  
best radar now in existence.

The ship left [redacted] unloaded [redacted] headed for 25X1  
Varna, where it will take on fuel oil [redacted] 25X1  
[redacted]  
[redacted]



NOVOROSSISK

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the Soviets plan to construct 10 ships like the MOLODECHNO serie "KASBEK") in the immediate future. The total fleet of tankers of this 10,000 ton class, then, between those in service, under construction, and planned for the immediate future totals between 25 and 30 ships. 25X1

Regarding the construction of merchant ships, four ships of the "STANISLAVSKY" type (serie Compositori) will be built in Belgian yards, nine ships of the TISSO type (identical to the Pfo "Shemaka") are to be built in the Budapest shipyards, nine ships of the GOLOVNIN type, however, to be of liquid combustion, are to be built in Polish shipyards, and finally one more passenger vessel which will be named the "Admiral NAKHIMOV" equipped to carry 1100 passenger in cabins ~~will be~~ built in an Eastern German shipyard is now practically completed and will be very soon undergoing its sea trials and be put into active service. 25X1

For the shipment of oil products on internal rivers some 20 new ships of - of about 5000 tons and equipped with engines of a power of about 1000 c.a. each.

Originally the motors that were to be installed on these tankers were of a power of 800 c.a. but it appears that they did not prove to be right and had to be replaced by the bigger engines. 25X1

(aid that the oil port of Odessa were not sufficient to permit the docking of tankers of 25,000 tons. In the port of Odessa 25X1

there exists at the present time a "Neptune" coastal radar installation which was installed in 1955 and is operated by the Odessa Port pilots, who also have two radio telephone stations (R-106) with a range of 3.5 miles. These installations are not linked together, however, and the radar station does not cover but about one-third of the Porticciolo petroli the rest of which remains in ombra. For this reason there is a plan under study to substitute the ~~three~~ installations with a common radar-radio-telephone installation. The new Radar will be of the "ZARMA" type with a range of 50-70 miles.

It is possible, however, that the new radar installation will be equipped with a new Neptune type which has a range up to about 40 miles. The radio-telephone set up will have a range of 10 miles.

It seems also that they will select an entirely new location for the new set up as the present location (near the Grain Docks) is not good for the purpose. 25X1

On regular Soviet commercial sea services there now exists five regular lines from the Black Sea to the following countries: ~~to~~ Jugoslavia, Albania, ~~to~~ On the ~~run~~ run now there is the the "Tashkent" that makes regular grain hauls from Novorossisk to ~~Up~~ Up to the present time that ship has carried 50,000 tons. Returning from Russia 25X1 to the ship hauls cotton. 25X1

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Regarding the quality of petroleum products, [redacted] those loaded at Varna were of the very fines and could be burned without refining because they were without gasoline vapors. Also those Rumanian oils at Batum [redacted] those of Novorossisk - which come from the Saratov zone on the Volga, and have a high sulphuric content.

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The Soviet mercantile ships are now equipped with a new type of [redacted] -- gyroscope - Marca "Kurs - 3" "Kurs - 4" AMUR-MGK-AIN as well as a new type of gyropilot of the "ANSCHUTZ" trade mark and a [redacted] "NEL - 3" [redacted] MGK is composed of two [redacted] that lend it very good stability, but at the same time involve defects due to the inadequate cooling system and other construction details that are in the process of ~~for~~ improvement. Much of this difficulty is due to the fact that in Russia new pieces of equipment of this type are built in an assembly line fashion without being subject to individual trials and breaking in periods.. Such is the case, for example of the "STVOR" radar which was mass produced and then placed aboard various ships when it was learned that after 20 hours of operation a series of [redacted] developed and the sets had to be repaired. On Soviet ships the radio officer (or radio telegraphist) is in charge of the operation and maintenance not only of the RT equipment but also the navigation equipment

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